

## AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

- [C1] (currently amended) An ultrasonic dental scaler comprising:
- a dental generator unit comprising circuitry to couple with an inductor in a handpiece for producing a base resonance signal;
  - a handpiece connector for removably coupling the a handpiece to the dental generator unit; and
  - a passive circuit element coupled to the circuitry and the inductor via the handpiece connector to adjust a frequency of the base resonance signal to a second frequency matching a resonant frequency of the handpiece.
- [C2] (original) The ultrasonic dental scaler of claim 1, further comprising:
- a first potentiometer in the dental generator unit for adjusting the power level of the resonance signal.
- [C3] (currently amended) The ultrasonic dental scaler of claim 2, further comprising:
- a power level controlling footswitch comprising a second potentiometer; and
  - a footswitch connector for removably coupling the footswitch to the dental generator unit, wherein the footswitch connector disables the first potentiometer and couples a the second potentiometer in the footswitch to the dental generator unit.
- [C4] (previously presented) The ultrasonic dental scaler of claim 2, further comprising:
- a footswitch connector for removably coupling a simple footswitch to the dental generator unit, wherein the simple footswitch connector enables the first potentiometer.

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- [C5] (original) The ultrasonic dental scaler of claim 1, wherein the passive circuit element is a capacitor.
- [C6] (original) The ultrasonic dental scaler of claim 5, wherein the capacitor is in the handpiece connector.
- [C7] (previously presented) The ultrasonic dental scaler of claim 5, wherein the capacitor is in the dental generator unit isolated from the circuitry and wherein the handpiece connector includes wiring to couple the capacitor to the circuitry and thereby adjust the frequency of the base resonance signal to the second frequency.
- [C8] (original) The ultrasonic dental scaler of claim 4, further comprising:  
a programmable logic control device for adjusting the frequency of the base resonance signal.
- [C9] (canceled)
- [C10] (currently amended) ~~An~~ The ultrasonic dental scaler of claim 9, further comprising:  
a dental generator unit comprising:  
circuitry for producing a base resonance signal; and  
a first potentiometer for adjusting a power level to the circuitry;  
a footswitch connectable to the dental generator unit, wherein the  
footswitch, when engaged with the dental generator unit,  
selectively sends power to the dental generator unit, wherein the  
footswitch enables operation of the first potentiometer; and  
a second potentiometer within the footswitch;  
wherein the first potentiometer is disabled when the footswitch is connected to the dental generator unit.
- [C11] (currently amended) The ultrasonic dental scaler of claim ~~9~~ 10, wherein the footswitch comprises a pair of wires such that when the footswitch is

engaged with the dental generator unit, the first potentiometer adjusts the power level to the circuitry.

[C12] (previously presented) An ultrasonic dental scaler comprising:

- a footswitch comprising circuitry for sending power to the ultrasonic dental scaler;

- signal generation circuitry in the ultrasonic dental scaler;

- a first potentiometer separate from the signal generation circuitry; and

- a footswitch connector coupled between the footswitch and the ultrasonic dental scaler, wherein the footswitch connector operatively connects the signal generation circuitry in the ultrasonic dental scaler to a the first potentiometer.

[C13] (original) The footswitch of claim 12, wherein the first potentiometer is within the ultrasonic dental scaler.

[C14] (original) The footswitch of claim 12, wherein the first potentiometer is within the footswitch.

[C15] (previously presented) An ultrasonic dental scaler comprising:

- a footswitch comprising:

- circuitry for sending power to the ultrasonic dental scaler; and

- a first potentiometer;

- a footswitch connector coupled between the footswitch and the ultrasonic dental scaler, wherein the footswitch connector connects circuitry in the ultrasonic dental scaler to a first potentiometer in the footswitch; and

- a second potentiometer;

- wherein the second potentiometer is disabled when the footswitch is connected to the ultrasonic dental unit.

[C16] (canceled)

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[C17] (canceled)

[C18] (canceled)

[C19] (canceled)